

ECS Configuration Change Request

Page 1 of 1 Page(s)

1. Originator Joan H. Schessler	2. Log Date: 01/08/02	3. CCR #: 02-0008	4. Rev: —	5. Tel: 301.925.0426	6. Rm #: 2080C	7. Dept. SE
8. CCR Title: Revise Ticket RH_6B_03: Ingest of Aura and SORCE						
9. Originator Signature/Date Joan H. Schessler /s/ 1/8/02			10. Class II	11. Type: CCR	12. Need Date: 1/16/02	
13. Office Manager Signature/Date Evelyn N. Nakamura /s/ 1/8/02			14. Category of Change: VDB		15. Priority: (If "Emergency" fill in Block 27). Routine	
16. Documentation/Drawings Impacted: N/A			17. Schedule Impact: N/A		18. CI(s) Affected:N/A	
19. Release Affected by this Change: N/A		20. Date due to Customer: 1/15/02		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:						
23. Problem: (use additional Sheets if necessary) NCR ECSed31959 replaces data type ML3MMAP with two data types, ML3MMAPD and ML3MMAPS. Ticket RH_6B_03 lists ML3MMAP.						
24. Proposed Solution: (use additional sheets if necessary) Update RH_6B_03.						
25. Alternate Solution: (use additional sheets if necessary)						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) The ticket is the primary, permanent reference for data types to be ingested. Incorrect tickets may lead to errors and rework.						
27. Justification for Emergency (If Block 15 is "Emergency"):						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): Randall J. Miller /s/ 1/16/02			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB			
33. M&O CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS Fwd/ESDIS			

Latest CCR Affecting this Ticket: 01-0506A
Latest CCR DATE Affecting this Ticket: 07/02/2001

Ticket : RH_6B_03 (With L4 Mappings)

Ingest of 6B Aura and SORCE Instrument Data Types

Launch Criticality: 6B
Review: INS, SDSRV, SO
Priority: NO DATA
Number of Tracked Ticket Changes: 2

Ticket CCR Number * : 01-0506A

Ticket CCR Date * : 07/02/2001

* Represents changes to information from Ticket table only. Does not include information linked in from other tables.

NOTE: The number of tracked changes (above) represents the number of changes to this particular Ticket. Whenever the data appearing in this Ticket changes this number is incremented by 1.

External Interface Dependency:

This ticket identifies several data types that will be produced by certain of the Aura instrument (MLS, TES, HIRDLS) and the SORCE instrument data processing systems. These are SIPS-type systems and so the data will be ingested by ECS via the SIPS interface. Sample data is required for the ingest tests, particularly the PDR and .MET files. Although Ingest does not process the actual science data files so that any file would be acceptable for ingest processing, it is desirable for testing if actual instrument data files are used.

Subsystem Dependency:

Ingest, SDSRV

Preconditions:

Descriptor files for these data types need to be configured. The Earth Science Data Type (ESDT) shortnames for each of the data types are the same as the names given below for these products.

Comments:

The ingest of these data types is covered under the following SIPS ICD Volumes

SIPS ICD Vol. 8: MLS Data Flows (423-41-57-8) - Status: baselined.

SIPS ICD Vol. 10: TES Data Flows (423-41-57-10) - Status: not currently baselined.

SIPS ICD Vol x: HIRDLS Data Flows - Status: under development.

There is no SIPS ICD Volume for SORCE at this time

See also the SIPS ICD Volume 0 (423-41-57) that provides the basis for this protocol.

Operations Concept :

1. For the Aura instruments, ECS will ingest higher level (Level 1A and above) instrument data from SIPS-type processing systems established for these instruments: MLS, HIRDLS and TES. There will be a separate SIPS system for each of the instruments. TES instrument data will be ingested at the LaRC DAAC and the data from the other instruments will be ingested at the GSFC DAAC. The ingest protocols will conform to those identified in the SIPS ICD Volume 0. Data volume estimates for these data types are recorded in the F&PRS (423-41-02).

2. For the SORCE instruments, ECS will ingest all data from a SIPS-type processing system established for this mission. The data from the instruments will be ingested at the GSFC DAAC. The ingest protocols will conform to those identified in the SIPS ICD Volume 0. Data volume estimates for these data types are not available at this time but will be recorded in the F&PRS (423-41-02).

3. The following data types will be ingested for MLS:

ML1ENG	ML1LOG	ML1OA
ML1RADD	ML1RADF	ML2BRO
ML2CLO	ML2CO	ML2DGG
ML2DGM	ML2Z	ML2H2O
ML2HCL	ML2HCN	ML2HNO3
ML2HO2	ML2HOCL	ML2ICE
ML2LOG	ML2N2O	ML2O3
ML2OH	ML2OTH	ML2RHI
ML2SO2	ML2T	ML3DCLO
ML3DCO	ML3DZ	ML3DH2O
ML3DHCL	ML3DHCN	ML3DHNO3
ML3DICE	ML3DN2O	ML3DO3
ML3DOH	ML3DRHI	ML3DT
ML3DZMD	ML3DZMS	ML3LOG
	ML3MZMD	ML3MZMS
ML3MMAPD	ML3MMAPS	

4. The following data types will be ingested for TES

TL1BL	TL1BN	TL2ATMTL
TL2ATMTN	TL2CH4L	TL2CH4N
TL2COL	TL2CON	TL2H2OL
TL2H2ON	TL2HNO3L	TL2NO2L
TL2NOL	TL2O3L	TL2O3N
TL3ATMTL	TL3ATMTN	TL3CH4L
TL3CH4N	TL3COL	TL3CON
TL3H2OL	TL3H2ON	TL3HNO3L
TL3NO2L	TL3NOL	TL3O3L
TL3O3N		

5. The following data types will be ingested for HIRDLS:

HIR1DRV	HIR2APR	HIR2BRWS
HIR2CFG	HIR2CLDS	HIR2CLIM
HIR2CTRL	HIR2INST	HIR2LOG
HIR2QA	HIR2TRA	HIR3CFG

HIRDLS1

HIRDLS2

HIRDLS3

6. The following data types will be ingested for SORCE:

SORL0TLM

SOR3TSID

SOR3TSI6

SOR3SSID

SOR3SSI6

SOR41NMD

SOR41NM6

Development Capability(ies):

Cap ID	Title	Description	Change Date
00030IN	Ingest Tailoring For Aura and SORCE Instrument Data Types	Support for ingest of Aura SORCE Instrument data	06/25/2001

Level 3 Requirement(s):

L3 ID	L3 Text	Clarification	Category	Release	CCR Num
DADS0190	The ECS shall receive from the SCF the following: a. Special products (L1-L4) b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Science Software g. Standard Products (L1-L4)	The ingest of SCF data products will be supported by the SIPS interface which is further specified in SDPS0092 and SDPS0093. Special Data Products are described in the F&PRS Glossary. ECS assumes that the DAACs are responsible for creating and testing ESDTs for Special Products. The volume of Special Data Products will not impact archive capacity significantly and they will be ingested by ECS through the SIPS interface. 5A: Support to AM-1 Mission 5B: Capability to be added to support PM-1 Mission 6B: CHEM-1	INS, SDSRV	5A 5B Partial	99-0651
SDPS0092	The ECS shall provide an interface as defined in the SIPS ICD for supporting external production and	Provided through SIPS ingest interface and machine-to-machine gateways.	SDSRV, INS	5B 6A	00-0020

	reprocessing of standard ECS products.	5B: PM-1 Ingest 6A: Machine to machine			
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IRD Requirement(s):

NONE

Level 4 Requirement(s):

L4 ID	L4 Text			Release	CCR Num
S-INS-00600	The Ingest CI shall ingest and insert into the SDSRV at the GSFC DAAC the MLS SIPS data as follows:			6B	01-0506A
	ML1ENG	ML1LOG	ML1OA		
	ML1RADD	ML1RADF	ML2BRO		
	ML2CLO	ML2CO	ML2DGG		
	ML2DGM	ML2Z	ML2H2O		
	ML2HCL	ML2HCN	ML2HNO3		
	ML2HO2	ML2HOCL	ML2ICE		
	ML2LOG	ML2N2O	ML2O3		
	ML2OH	ML2OTH	ML2RHI		
	ML2SO2	ML2T	ML3DCLO		
	ML3DCO	ML3DZ	ML3DH2O		
	ML3DHCL	ML3DHCN	ML3DHNO3		
	ML3DICE	ML3DN2O	ML3DO3		
	ML3DOH	ML3DRHI	ML3DT		
	ML3DZMD	ML3DZMS	ML3LOG		
		ML3MZMD	ML3MZMS		
	ML3MMAPD ML3MMAPS				
S-INS-00601	The Ingest CI shall ingest and insert into the SDSRV at the LaRC DAAC the TES SIPS data as follows:			6B	01-0506A
	TL1BL	TL1BN	TL2ATMTL		
	TL2ATMTN	TL2CH4L	TL2CH4N		
	TL2COL	TL2CON	TL2H2OL		
	TL2H2ON	TL2HNO3L	TL2NO2L		
	TL2NOL	TL2O3L	TL2O3N		
	TL3ATMTL	TL3ATMTN	TL3CH4L		
	TL3CH4N	TL3COL	TL3CON		
	TL3H2OL	TL3H2ON	TL3HNO3L		
	TL3NO2L	TL3NOL	TL3O3L		
	TL3O3N				

S-INS-00602	The Ingest CI shall ingest and insert into the SDSRV at the GSFC DAAC the HIRDLS SIPS data as follows:			
	HIR1DRV	HIR2APR	HIR2BRWS	6B
	HIR2CFG	HIR2CLDS	HIR2CLIM	
	HIR2CTRL	HIR2INST	HIR2LOG	
	HIR2QA	HIR2TRA	HIR3CFG	
	HIRDLS1	HIRDLS2	HIRDLS3	
S-INS-00603	The Ingest CI shall ingest and insert into the SDSRV at the GSFC DAAC the SORCE spacecraft SIPS data as follows: SORL0TLM SOR3TSID SOR3TSI6 SOR3SSID SOR3SSI6 SOR41NMD SOR41NM6			6B
				01-0506A
				01-0506

L4 to L3 Mappings:

L4 ID	L3 ID	CCR Num
S-INS-00600	DADS0190	01-0506A
S-INS-00600	SDPS0092	01-0506A
S-INS-00601	DADS0190	01-0506A
S-INS-00601	SDPS0092	01-0506A
S-INS-00602	DADS0190	01-0506A
S-INS-00602	SDPS0092	01-0506A
S-INS-00603	DADS0190	01-0506A
S-INS-00603	SDPS0092	01-0506A

L4 to IRD Mappings:

NONE

Criteria:

Criteria Key	Criteria ID	Criteria Text	Type	CCR Num
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1975	10	Verify that the system can ingest and archive the following MLS data types:			FC	01-0506A
		ML1ENG	ML1LOG	ML1OA		
		ML1RADD	ML1RADF	ML2BRO		
		ML2CLO	ML2CO	ML2DGG		
		ML2DGM	ML2Z	ML2H2O		
		ML2HCL	ML2HCN	ML2HNO3		
		ML2HO2	ML2HOCL	ML2ICE		
		ML2LOG	ML2N2O	ML2O3		
		ML2OH	ML2OTH	ML2RHI		
		ML2SO2	ML2T	ML3DCLO		
		ML3DCO	ML3DZ	ML3DH2O		
		ML3DHCL	ML3DHCN	ML3DHNO3		
		ML3DICE	ML3DN2O	ML3DO3		
		ML3DOH	ML3DRHI	ML3DT		
		ML3DZMD	ML3DZMS	ML3LOG		
			ML3MZMD	ML3MZMS		
		ML3MMAPD ML3MMAPS				
1976	20	Verify that the system can ingest and archive the following TES data types:			FC	01-0506A
		TL1BL	TL1BN	TL2ATMTL		
		TL2ATMTN	TL2CH4L	TL2CH4N		
		TL2COL	TL2CON	TL2H2OL		
		TL2H2ON	TL2HNO3L	TL2NO2L		
		TL2NOL	TL2O3L	TL2O3N		
		TL3ATMTL	TL3ATMTN	TL3CH4L		
		TL3CH4N	TL3COL	TL3CON		
		TL3H2OL	TL3H2ON	TL3HNO3L		
		TL3NO2L	TL3NOL	TL3O3L		
		TL3O3N				
1977	30	Verify that the system can ingest and archive the following HIRDLS data types:			FC	01-0506A
		HIR1DRV	HIR2APR	HIR2BRWS		
		HIR2CFG	HIR2CLDS	HIR2CLIM		
		HIR2CTRL	HIR2INST	HIR2LOG		
		HIR2QA	HIR2TRA	HIR3CFG		
		HIRDLS1	HIRDLS2	HIRDLS3		

1978	40	Verify that the system can ingest and archive the following SORCE spacecraft data types: SORL0TLM SOR3TSID SOR3TSI6 SOR3SSID SOR3SSI6 SOR41NMD SOR41NM6	FC	01-0506A

Test Case(s):

NONE